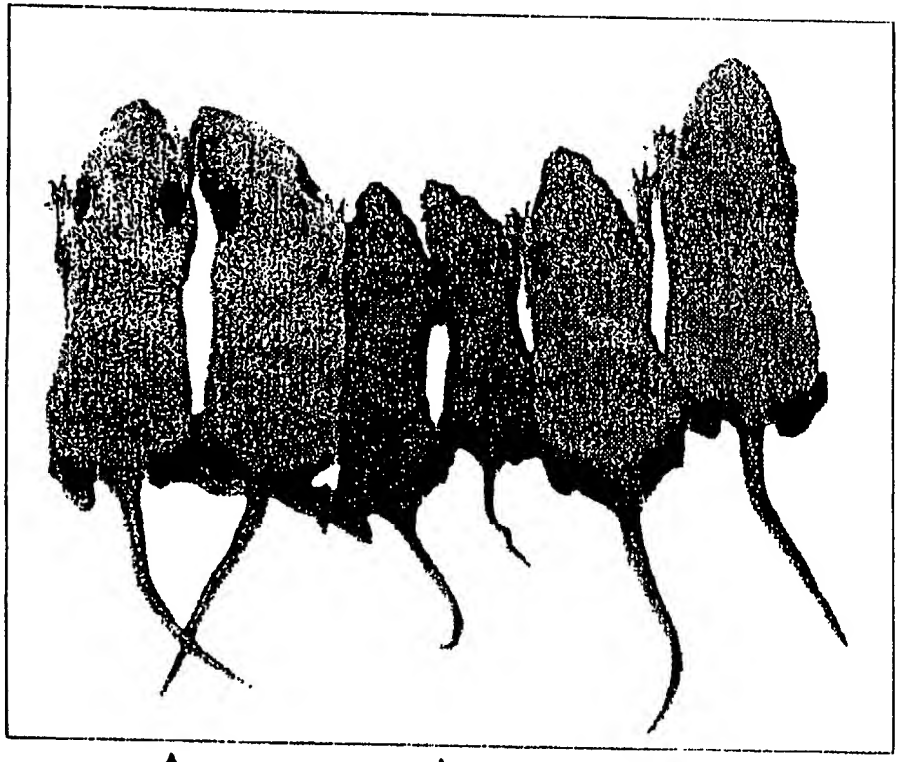


FIG. 1A

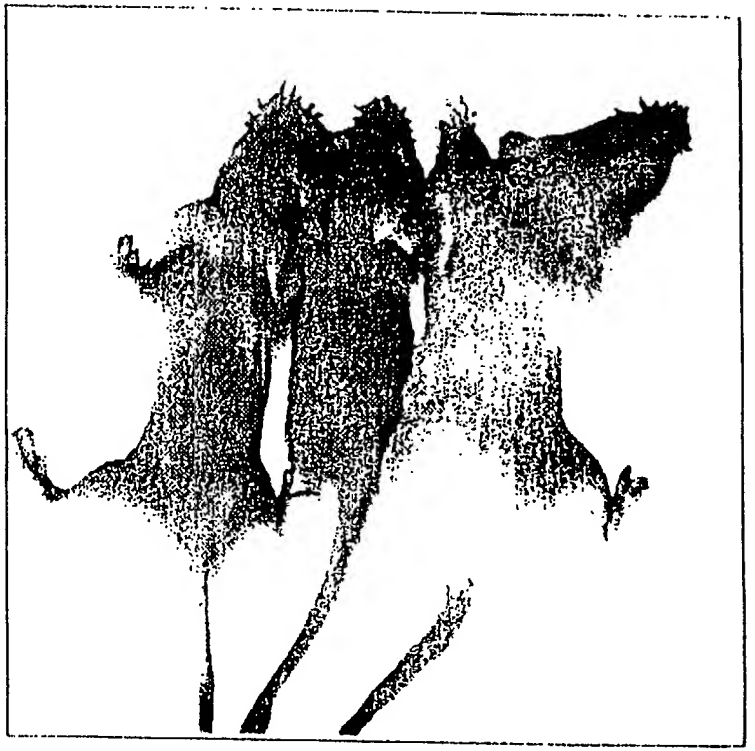
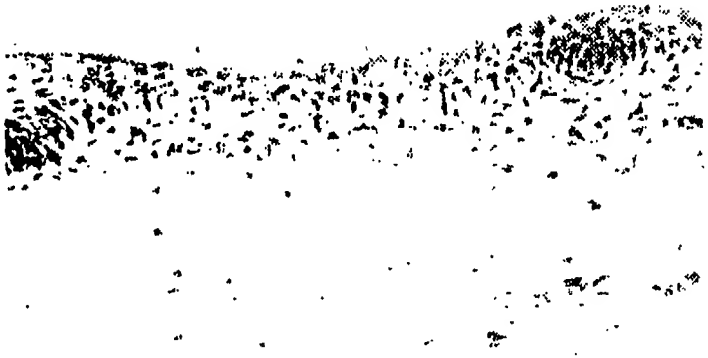
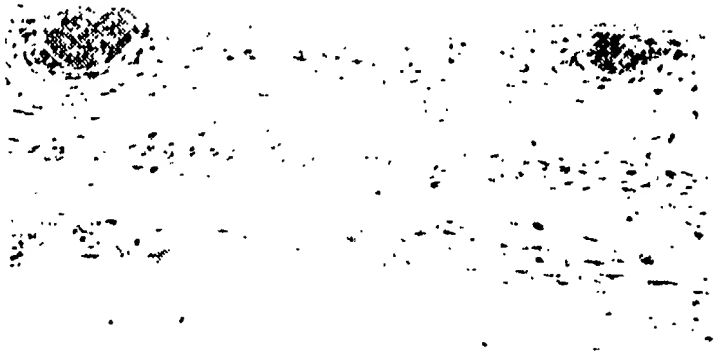


FIG. 1B



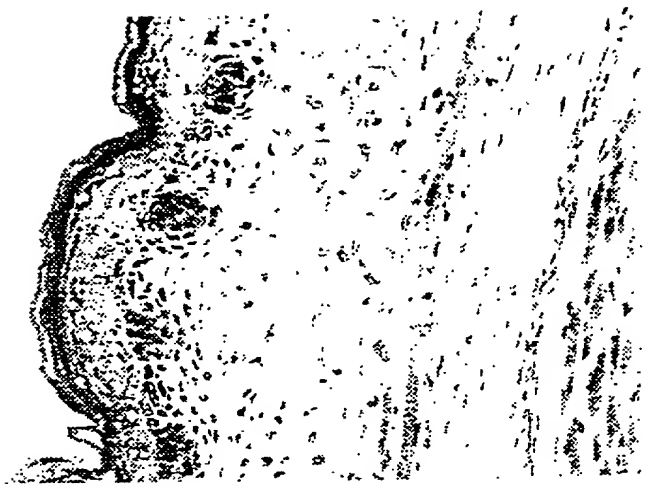
CTRL Ab

FIG. 1C



ANTI-HEDGEHOG Ab

FIG. 1D



HH-Ab TREATED E18.5

FIG. 1F

CTRL E18.5

FIG. 1E

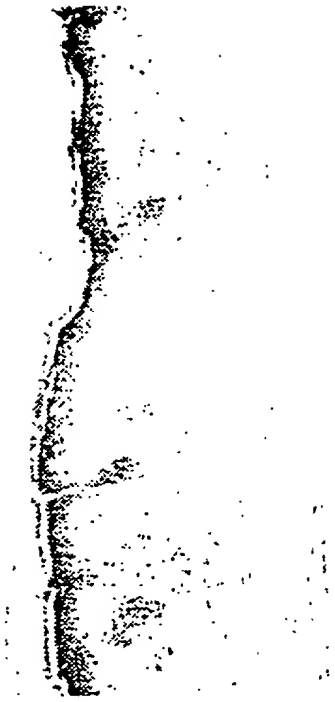


FIG. 1H

FIG. 1G

HH-Ab TREATED AT d17

FIG. 1J

CTRL d17

FIG. 1I

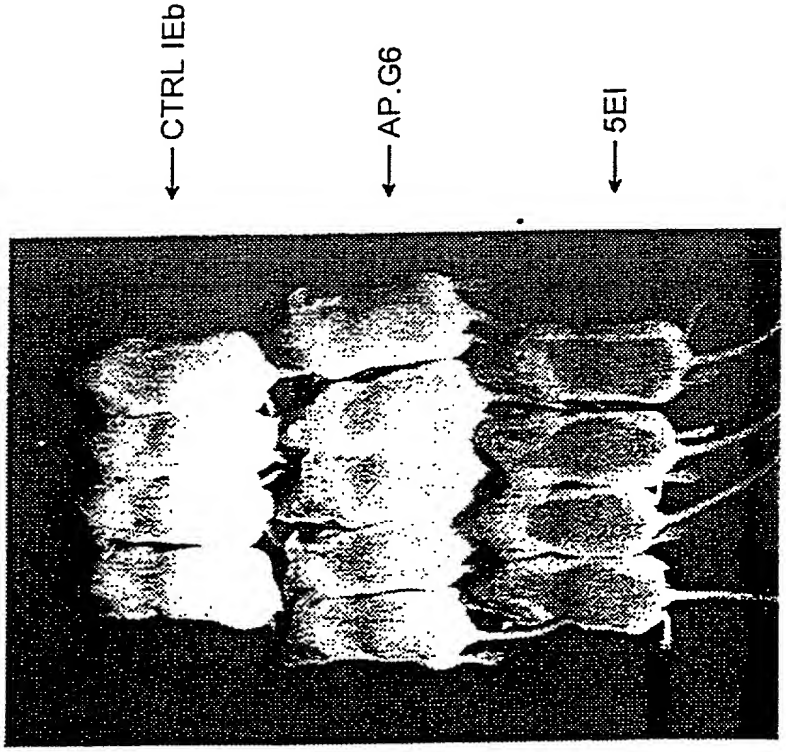
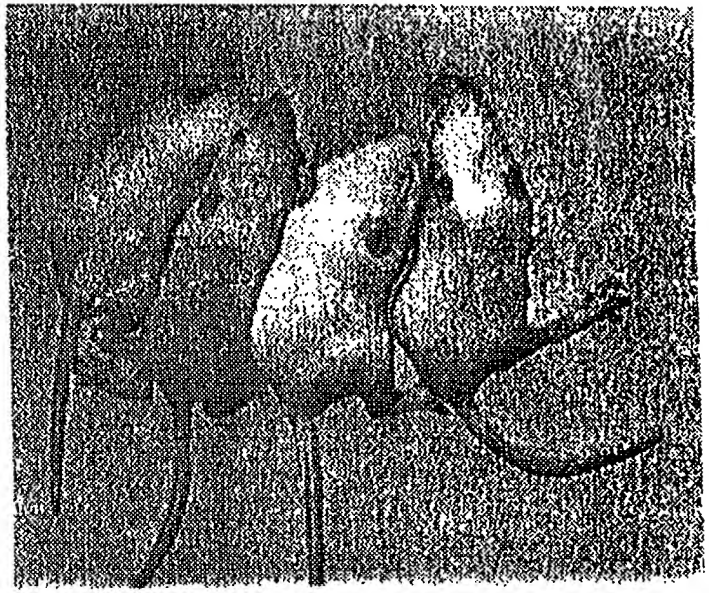


FIG. 2

CTRL AT d2

FIG. 3A



HH-Ab TREAMENT AFTER BIRTH
AND CONTINUED TO d10

FIG. 3B

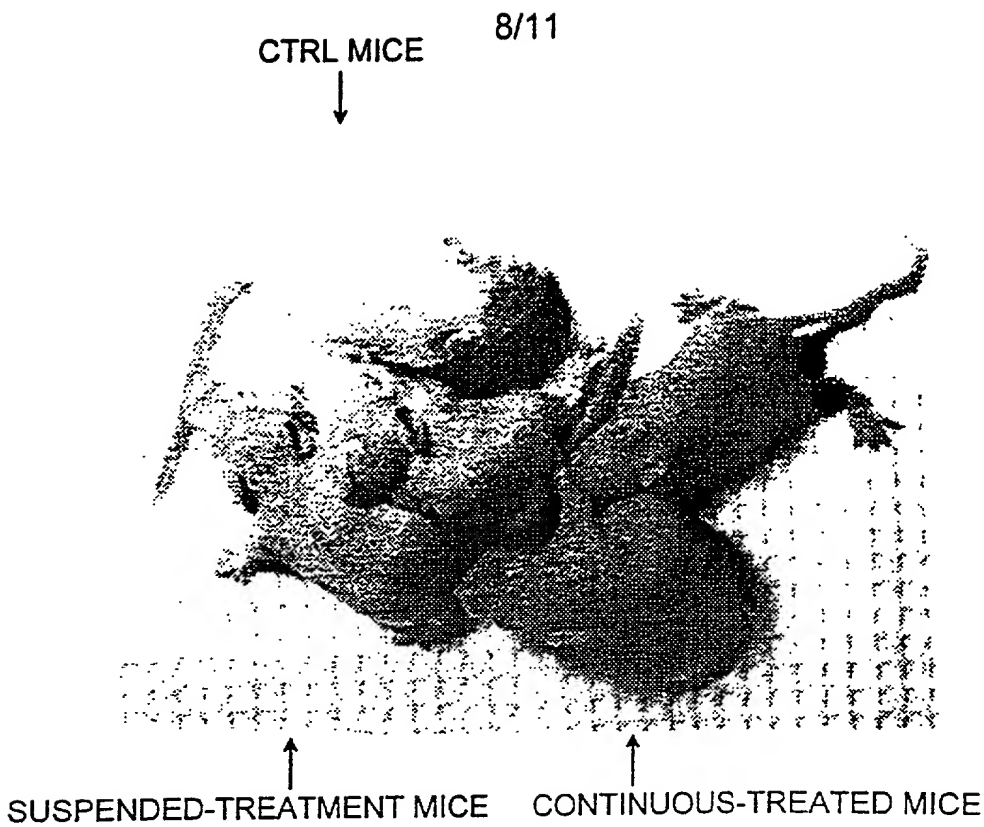

CTRL MICE
SUSPENDED-TREATMENT MICE
CONTINUOUS-TREATED MICE

FIG. 4A

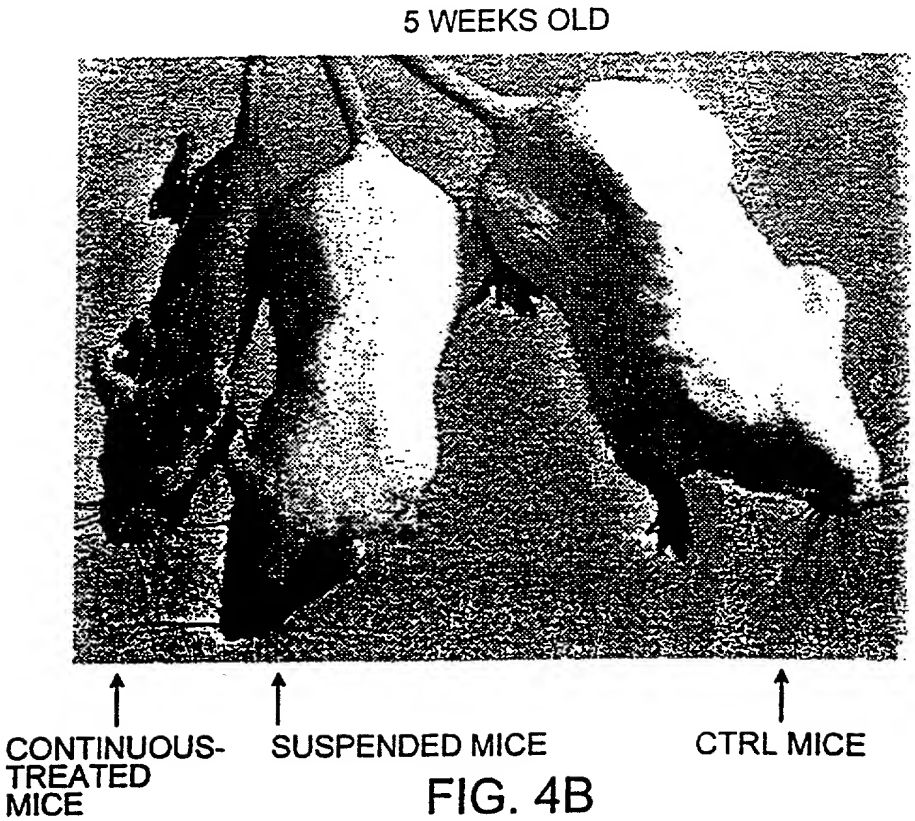
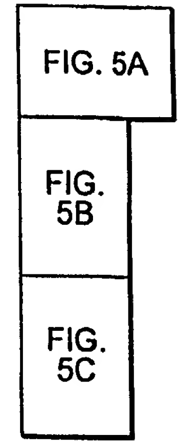

5 WEEKS OLD
CONTINUOUS-TREATED MICE
SUSPENDED MICE
CTRL MICE

FIG. 4B

FIG. 5



CONSENSUS SEQUENCE of N-terminal fragments

SEQ ID NO. 4

1				
$CGPGR_{X1}$ X2 X3 X4 X5	RR_{X6} X7 X8 $K_{X9}L_{X10}P$	$L_{X11}YKQF_{X12}P_{X13}V$	$X_{14}EKTLGASGR$	40
$X_{15}EGK_{X16}$ $X_{17}R_{X18}SE$	$RFK_{X19}L_{X20}PNYN$	PDIIFKDEEN	$X_{21}GADRLMT_{X22}R$	80
CK_{X23} X24 $X_{25}NSLAI$	$X_{26}VMN_{X27}WPGVK$	LRVTEGWDED	GHH_{X28} X29 $X_{30}SLHY$	120
EGRAVDITTS	$DRDR_{X31}KYG_{X32}L$	ARLAVEAGFD	$WVYYES_{X33}$ $X_{34}H_{X25}$	160
$H_{X36}SVK_{X37}$ X38 $X_{39}S_{X40}$	AA_{X41} $X_{42}GG$ 176			

FIG. 5A

Where:

X1 is either V or G;

X2 is either V, F or P;

X3 is either G or V;

X4 is either S or G;

X5 is either R or K;

X6 is either P, H or Y;

X7 is either P or A;

X8 is either R or K;

X9 is any amino acid;

X10 is either V or T;

X11 is either A or L;

X12 is either S, I or V;

X13 is either N or G;

X14 is either P or A;

X15 is either Y or A;

X16 is either I or V;

X17 is either A or S;

X18 is either S, N or G;

X19 is either E or D;

X20 is either T or V;

FIG. 5B

X21 is either T or S;

X22 is either Q or E;

X23 is either D or E;

X24 is either R or K;

X25 is either L or V;

X26 is either S or A;

X27 is either Q or M;

X28 is either S or A;

X29 is either E or Q;

X30 is either E or D;

X31 is either N or S;

X32 is either N or M;

X33 is either K or R;

X34 is either A or N;

X35 is either V or I;

X36 is either C or V;

X37 is either S or A;

X38 is either E or D;

X39 is either H or N;

X40 is either A, V or L;

X41 is either K or R; and

X42 is either T, S or A.

FIG. 5C